

## A new record of *Cheiracanthium taegense* (Araneae: Eutichuridae) from Japan

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**Abstract** — *Cheiracanthium taegense* Paik 1990 (Eutichuridae) is recorded for the first time from Japan on the basis of a male specimen collected on Tsushima Island, Nagasaki Prefecture. A description of the specimen is presented with photographs of its body and genital organ. This species can be easily distinguished from other Japanese congeners by unique structure of male palp.

**Key words** — China, Korea, new record, taxonomy

### Introduction

The spider genus *Cheiracanthium* C. L. Koch 1839 (Araneae: Eutichuridae) currently comprises 209 species worldwide (World Spider Catalog 2016). Seven species are known from Japan: *C. pennyi* O. Pickard-Cambridge 1873; *C. lascivum* Karsch 1879; *C. japonicum* Bösenberg & Strand 1906; *C. erraticum* (Walckenaer 1802); *C. eutitha* Bösenberg & Strand 1906; *C. unicum* Bösenberg & Strand 1906; and *C. submordax* Zhang, Zhu & Hu 1993 (Tanikawa 2015). Recently, we recognized the occurrence of the eighth species of *C. taegense* Paik 1990, which has already been recorded from Korea and China (World Spider Catalog 2016), in Japan after examining material collected on Tsushima Island, Nagasaki Prefecture. Here, we report the first record of this species from Japan, and present the morphological characteristics of the male specimen. The specimen is deposited in the collection of the National Museum of Nature and Science, Tokyo (NSMT Ar-14586).

The following abbreviations are used: AER, anterior eye row; ALE, anterior lateral eye; AME, anterior median eye; PER, posterior eye row; PLE, posterior lateral eye; PME, posterior median eye; MOA, median ocular area. The distances between eyes are expressed as, e.g., “ALE–AME”.

*Cheiracanthium taegense* Paik 1990

[Japanese name: Tairiku-komachi-gumo]

(Figs. 1–4)

*Cheiracanthium taegense* Paik 1990, p. 11, figs 39–57; Xu & Zhang 1993, p. 94, figs 1–4; Zhang, Hu & Zhu 1994, p. 9, figs. 3–6; Song, Zhu & Chen 1999, p. 414, figs. 242Q–R, 244E–F; Namkung 2002, p. 425, figs. 34.3a–c; Kim & Cho 2002, p. 77, figs. 55–60; Namkung 2003, p. 420, figs. 34.3a–c; Yin et al. 2012, p. 1058, figs. 553a–e.

**Specimen examined.** A male specimen from a route

between Shimizuyama-joseki and the top of Ariakeyama, Izuhara-machi, Tsushima-shi., Nagasaki Prefecture, Japan; H. Yoshitake leg. 26-V-2015 (NSMT-Ar14586).

**Diagnosis.** *Cheiracanthium taegense* is similar in morphology to other Japanese congeners. However, the male palpal structures of *C. taegense* can be clearly distinguished from those of the other congeners by the unique shape of cymbium, the relatively short cymbial spur, and the hook-shaped retrolateral tibial apophysis (Figs. 3–4).

**Description.** Measurements (mm). Body 9.50 long. Carapace 4.25 long; 3.00 wide. Abdomen 6.50 long; 3.75 wide. Carapace and abdomen oval. In dorsal view, AER and PER almost straight. Eye sizes and inter-distances: AME 0.12, ALE 0.15, PME 0.15, PLE 0.12; AME–AME 0.27, AME–ALE 0.24, PME–PME 0.33, PME–PLE 0.39. MOA 0.48 long, 0.55 front width, 0.58 back width. Clypeus height 0.09. Leg lengths (tarsus + metatarsus + tibia + patella + femur=total): I, 3.00 + 9.50 + 8.00 + 2.00 + 7.00 = 29.50; II, 1.50 + 6.00 + 5.00 + 1.50 + 5.00 = 19.00; III, 1.25 + 4.75 + 3.25 + 1.50 + 3.25 = 14.00; IV, 1.50 + 6.75 + 4.25 + 1.50 + 5.00 = 19.00.

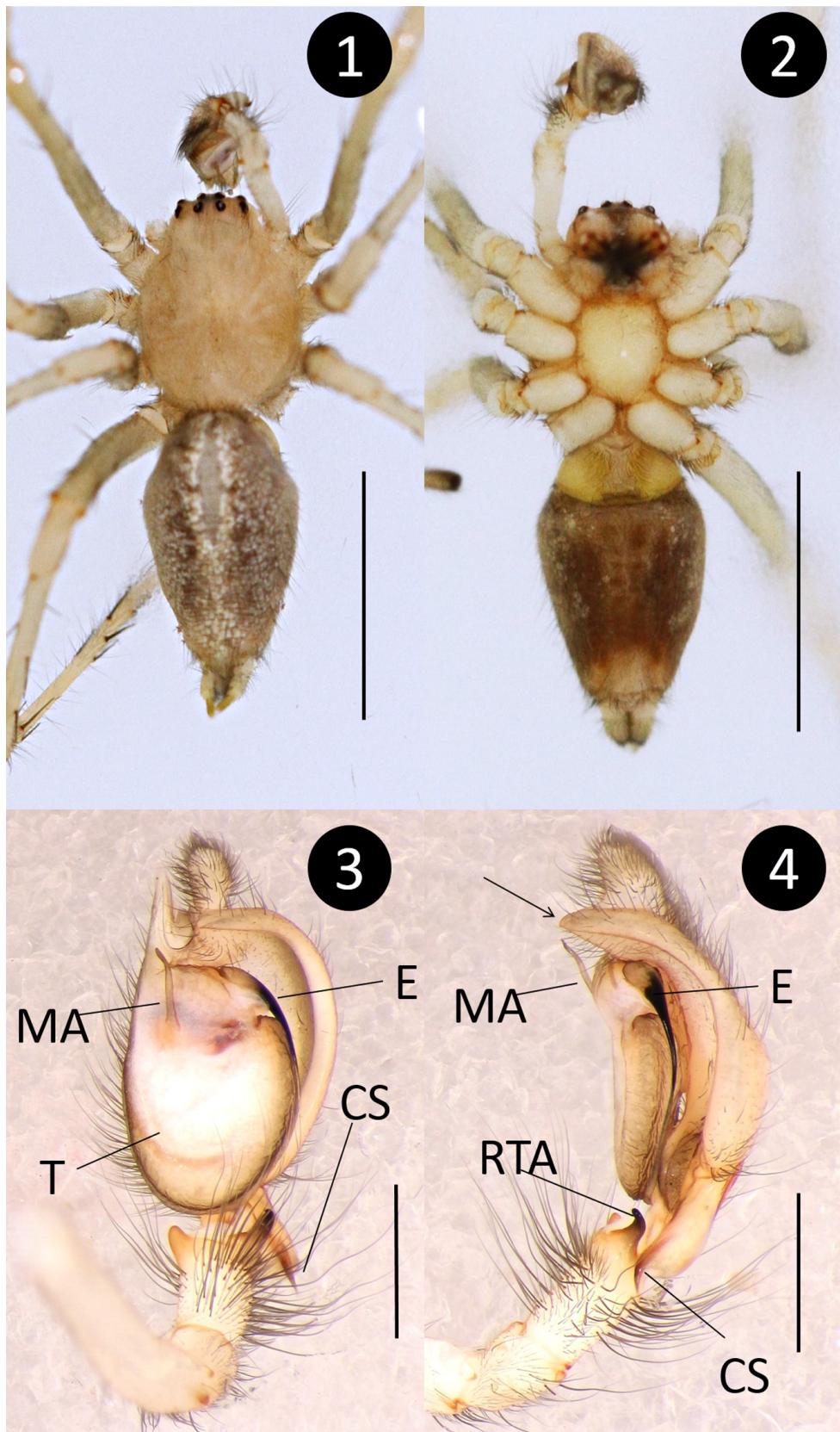
Coloration and marks (Figs. 1–2). Carapace light brown without markings. Chelicerae, maxillae and labium light brown with black hairs; sternum pale yellow. Abdomen dorsum grey with a light cardiac mark marginated with pale yellow stripe; venter dark brown. Legs pale yellow without annulation; spinnerets pale yellow.

Male palp (Figs. 3–4). Distal part of cymbium projected ventrally (arrow). Cymbial spur short and sharpened. Tegulum oval with strap-shaped median apophysis. Embolus arising at distal end of tegulum. Retrolateral tibial apophysis hook-shaped.

**Distribution.** Japan (Tsushima Island), Korea, China.

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**Figs. 1–4.** *Cheiracanthium taegense* Paik 1990, ♂ (NSMT-Ar 14586). 1, habitus, dorsal view; 2, same, ventral view; 3, male left palp, ventral view; 4, same, retrolateral view. Arrow shows distal part of cymbium projected ventrally. Scales=5.0 mm (1, 2); 1.0 mm (3, 4). CS, cymbial spur; E, embolus; MA, median apophysis; RTA, retrolateral tibial apophysis; T, tegulum.

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